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TITLE: Depositing oxide-contg metal or metalloid layer - using cold nitrogen plasma to decompose metal or metalloid alkyl.

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9519456 A1	July 20, 1995	F	019	C23C016/02
UNZ 270340 A	January 26, 1996		000	C23C016/18
FR 2715168 A1	July 21, 1995		016	C23C016/18
AU 9515390 A	August 1, 1995		000	C23C016/02

INT-CL (IPC): B05 D 3/04; C08 J 7/04; C08 J 7/06; C23 C 16/02; C23 C 16/18; C23 C 16/30; C23 C 16/44; C23 C 16/50; C23 C 16/52; H05 H 1/00

ABSTRACTED-PUB-NO: WO 9519456A

## BASIC-ABSTRACT:

In the deposition of a layer of gp IIb, IIIa, IVa or Va metal or metalloid and its oxide, in which the substrate (14) is pretreated with a deferred cold nitrogen plasma consisting of free nitrogen atoms in a chamber (13), the novelty is that, after substrate pretreatment, a volatile metal or metalloid alkyl (10) is introduced into the chamber (13) to form a layer, comprising a mixt of the metal or metalloid and its oxide, on the substrate (14).

ADVANTAGE - Highly adherent deposits, esp of zinc and zinc oxide, can be produced at ambient temp on any substrate, e.g. metals, alloys, ceramics, polymers, composite materials and glasses, to obtain a conductive, decorative or corrosion or erosion protective surface.